

FIGURE 1

Docket No.: 0399.1212-005
Title: Genome-Wide Location and Function...
Inventors: John Wyrick, *et al.*

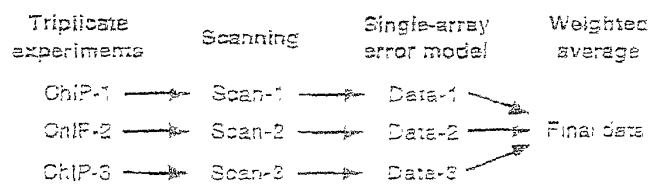
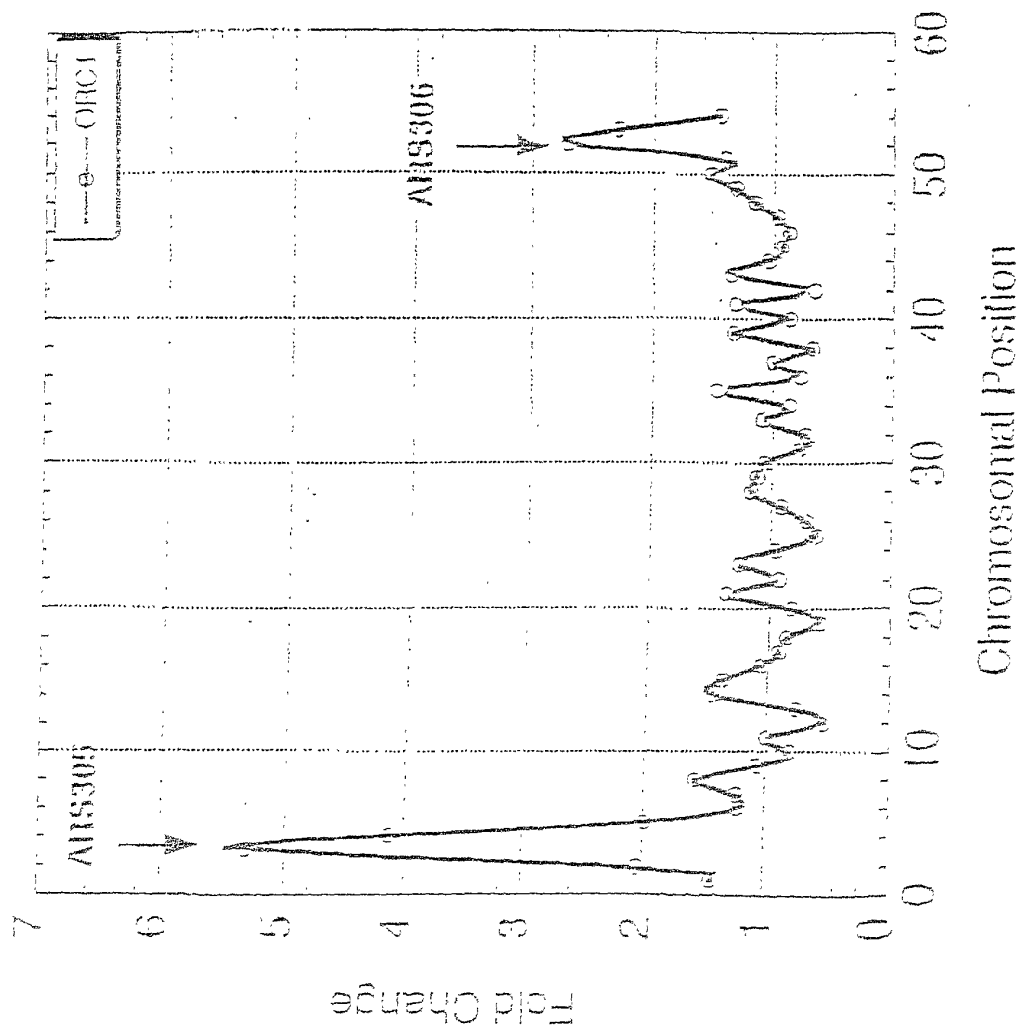


FIGURE 2

Genome-wide Monitoring of Protein-DNA interactions

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Inventors: John Wyrick, *et al.*



Interests:
RNA Polymerase II
SRB/Mediator Complex
General Transcription Factors
SWI/SNF Complex
SAGA

ORC complex
DNA Polymerase

FIGURE 3

Binding of ORC1 to Chromosome III

Docket No.: 0399.1212-005
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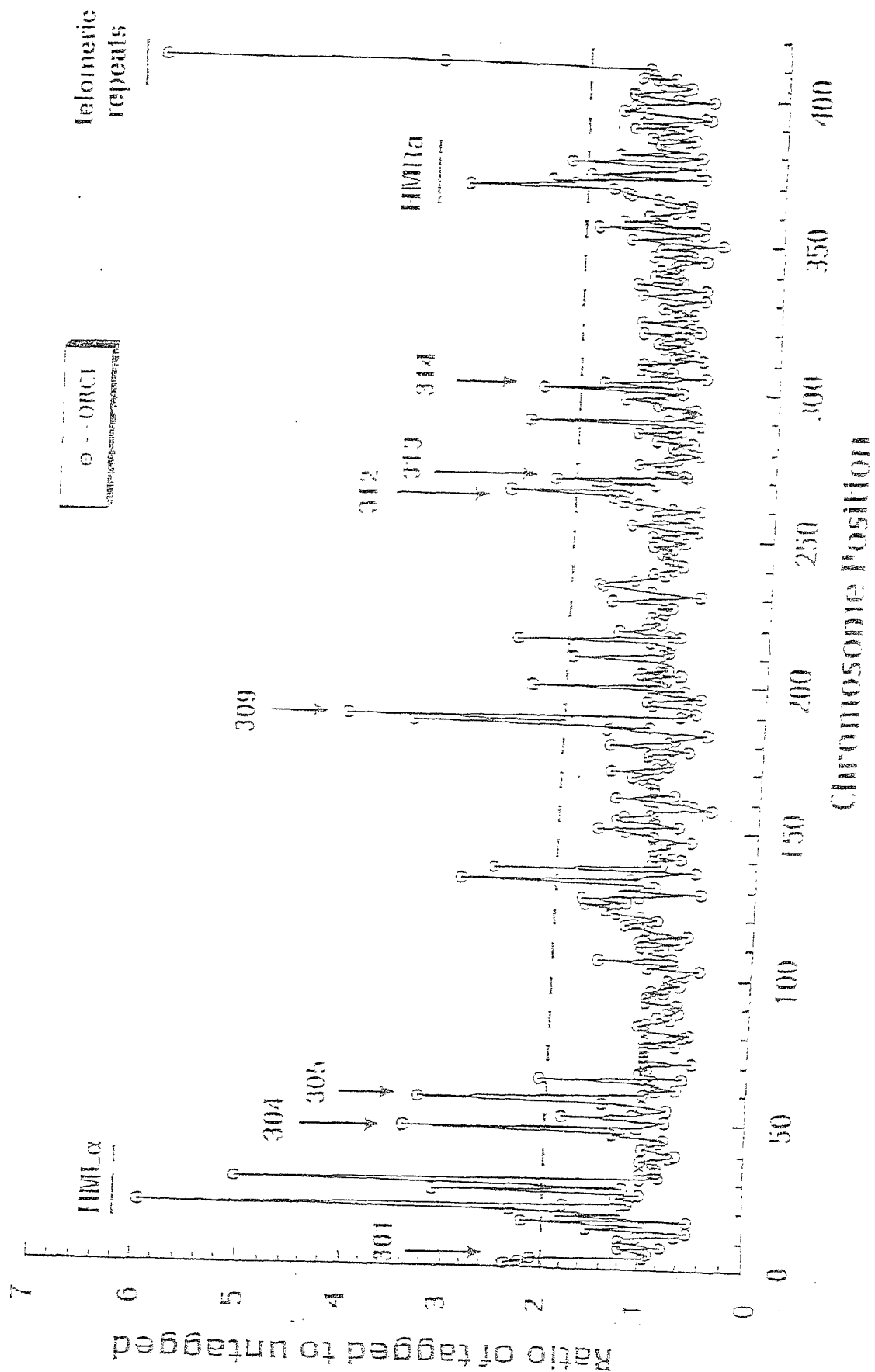


FIGURE 4

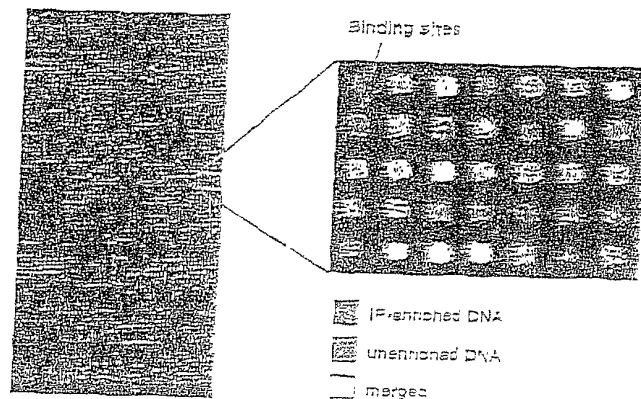


FIGURE 5A

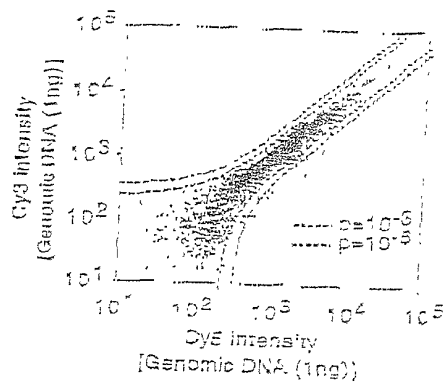


FIGURE 5B

FIGURE 6A

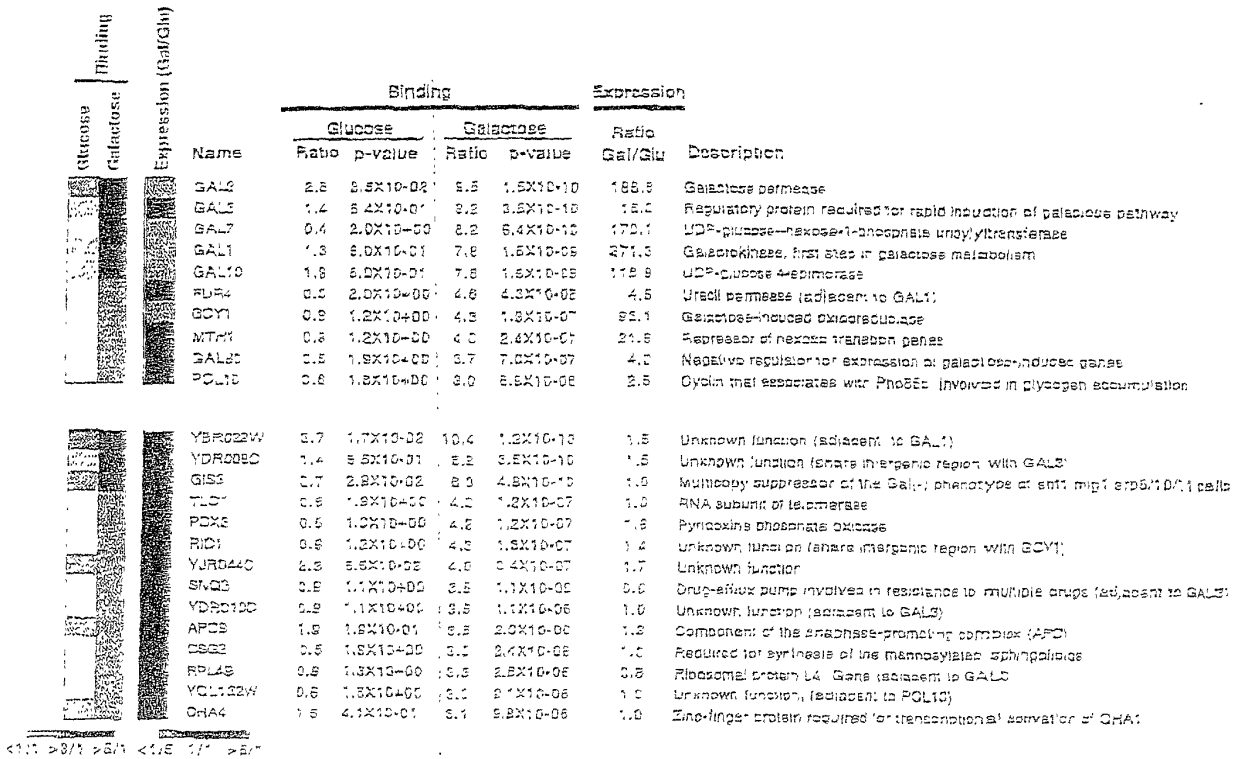


FIGURE 6B

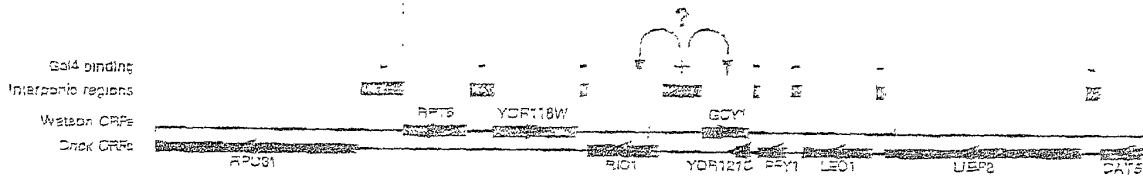


FIGURE 6C

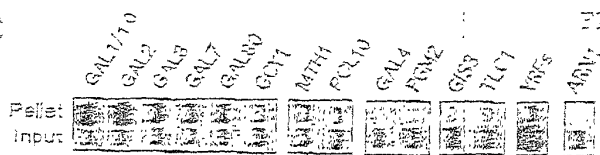


FIGURE 6D



FIGURE 6E

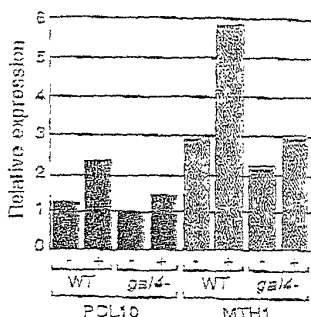
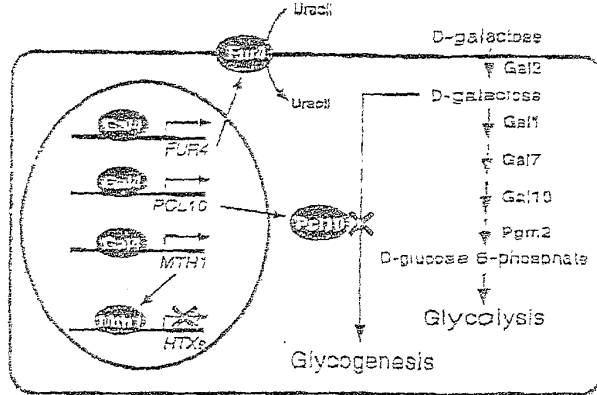


FIGURE 6F



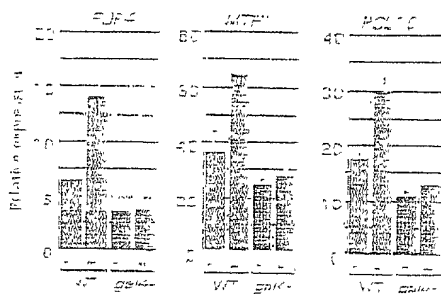


FIGURE 6G

FIGURE 7

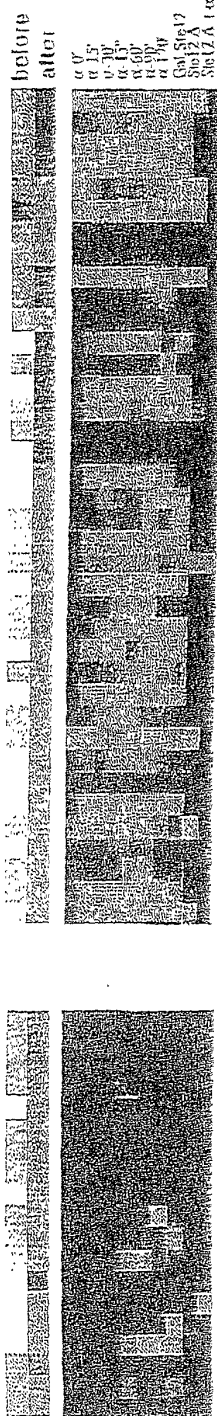
Binding Expression Name

Binding

before after
 ratio p-value ratio p-value

Description

5/1
 4/1
 3/1
 2/1
 <1/1
 >10/1
 5/1
 2/1
 1/1
 1/2
 1/5
 <1/10



Name	before	after	ratio	p-value	Description
PRM1	2.7	1.3E-04	6.2	4.5E-05	Pheromone-regulated membrane protein
ERG24	2.7	1.3E-04	6.2	4.5E-05	C-14 sterol reductase
POJ2	3.3	4.2E-03	5.9	5.8E-05	Ovulin family in association w/Pr. Phc55p
FIG2	2.8	2.2E-04	2.8	9.5E-05	Protein involved in mating induction
STE12	4.1	1.4E-05	4.1	3.1E-04	Transcription factor required for mating
FUS1	5.0	2.5E-07	4.1	5.8E-04	Protein required for cell fusion during mating
CDC43	2.9	1.5E-04	4.5	1.0E-03	Required for cell division and homotypic membrane fusion
YCR027D	2.4	5.5E-04	3.2	1.5E-03	Protein involved in growth regulation
FUS3	3.3	3.6E-05	5.4	2.0E-03	MAPK mediating mating pheromone signaling
PEP1	3.2	3.9E-05	5.4	2.0E-03	Receptor for vacuolar sorting of soluble vacuolar proteins
MET2	2.1	4.8E-03	2.5	3.2E-03	homoeologous O-acetyltransferase
YOR123D	0.7	1.0E-03	5.2	1.0E-04	Protein of unknown function
UTH1	1.7	5.9E-02	5.2	1.0E-04	Protein involved in the aging process
AFR1	1.0	5.6E-01	5.7	1.0E-04	Protein involved in morphogenesis of the mating projection
GIO2	1.4	1.1E-01	5.0	1.2E-04	Putative effector of Gcd42p, important for bud emergence
YNR048W	1.9	7.6E-03	4.8	1.4E-04	Protein of unknown function
MSS11	1.0	8.1E-01	4.9	1.5E-04	Protein involved in regulation of staron metabolism
YOR348D	1.1	7.0E-01	3.8	4.1E-04	Protein of unknown function
CHS1	0.9	1.0E-00	4.1	4.2E-04	Chitin synthase 1, functions during cell separation
SOX9	1.9	2.1E-01	4.2	4.5E-04	Serine/threonine protein kinase that is activated by cAMP
KAR5	1.2	3.7E-01	3.5	4.7E-04	Membrane protein required for homotypic nuclear fusion
YER046W-A	1.5	1.0E-01	3.8	5.1E-04	Protein of unknown function
YPL192D	0.9	1.0E-00	3.9	5.5E-04	Protein of unknown function
SPO25	1.3	2.0E-01	4.1	6.0E-04	Protein on the spindle pole body
YER019V	1.3	2.0E-01	4.1	6.0E-04	Moderately similar to mammalian neutral sphingomyelinase
YIL053D	1.0	5.7E-01	3.5	7.1E-04	Protein of unknown function
FGM1	2.0	6.1E-00	3.8	7.2E-04	Phosphoglucomutase
YIL057D	1.1	5.5E-01	3.4	8.2E-04	Protein of unknown function
YIL159D	1.5	7.2E-02	2.9	1.2E-03	Protein of unknown function
AGA1	1.4	1.1E-01	3.1	1.2E-03	α -Agglutinin anchor subunit
YOL155D	1.0	7.3E-01	3.0	2.1E-03	Similar to <i>S. cerevisiae</i> glucan 1,4- α -glucosidase
VTI1	0.9	1.0E-00	3.0	2.2E-03	Synaptobrevin (v-SNARE) homolog
CIK1	0.9	1.0E+00	3.0	2.2E-03	involved in spindle formation and karyogamy
FAF1	1.3	2.0E-01	3.0	2.4E-03	Involved in cell cycle arrest for mating
PHO31	1.0	8.3E-01	2.5	2.7E-03	COX inhibitor for Pho80p-Pho85p complex
YNR054C	1.3	7.4E-02	2.7	4.5E-03	Similar to Rhodospirillum rubrum bchC protein
HYM1	1.4	1.2E-01	2.7	4.6E-03	Protein with similarity to Aspergillus nidulans nymA
FIG1	1.2	8.5E-01	2.9	5.0E-03	Protein required for efficient mating
BMH2	2.1	3.2E-03	4.1	5.5E-04	Homolog to 14-3-3 protein; adjacent to Ty element YDR004a8
YGR189D	1.7	2.4E-02	4.5	1.7E-04	Cell wall protein; adjacent to Ty element YGRW04a30
YNR053D	1.9	5.7E-03	4.3	2.5E-04	Unknown function; adjacent to Ty element YNRWsigma4
MSO1	1.9	1.8E-02	4.3	2.9E-04	Muticopy suppressor of seef; adjacent to Ty element YNPWsigma4
TYE7	1.0	1.0E-00	3.9	4.6E-04	Basic helix-loop-helix transcription factor
YNR051D	1.8	1.4E-02	3.8	4.7E-04	Similar to chicken nucleolin; adjacent to Ty element YNRWsigma4
YNR048W	1.9	8.2E-03	3.9	4.9E-04	Protein of unknown function; adjacent to Ty element YNRWsigma4
YGL050W	1.7	2.0E-02	3.8	5.1E-04	Protein of unknown function; adjacent to Ty element YGL05aig3
YIL036W	1.1	5.5E-01	3.4	6.2E-04	Similar to Mef2p and to CREB proteins; adjacent to YIL057D
YNR057D	2.0	1.2E-02	3.4	1.1E-03	Protein of unknown function
SD11	1.6	7.2E-02	3.3	1.2E-03	Senna dehydratase; adjacent to YIL159D
YDR291C	1.2	4.2E-01	3.1	1.7E-03	Protein of unknown function; adjacent to Ty element YDRWsigma5
YDR100W	1.1	5.2E-01	3.5	1.9E-03	Protein of unknown function; adjacent to Ty element YDR004a8
YNL043C	1.1	5.7E-01	3.0	2.1E-03	Protein of unknown function; adjacent to Ty element YNLWsigma2
YOL154W	1.0	7.9E-01	3.0	2.1E-03	Protein with similarity to Zinc metalloproteinases; adjacent to YOL155
YHB1	1.0	5.3E-01	2.9	2.7E-03	Flevohemoglobin of unknown function; adjacent to PHO31
PAN3	1.9	5.5E-02	4.6	3.5E-03	Component of Pab1p-stimulated poly(A) ribonuclease
CWP2	1.9	1.5E-02	2.5	3.6E-03	major constituent of the cell wall containing GPI-anchor
YKL057C	1.5	1.5E-02	2.5	3.6E-03	Protein of unknown function; adjacent to CWP2

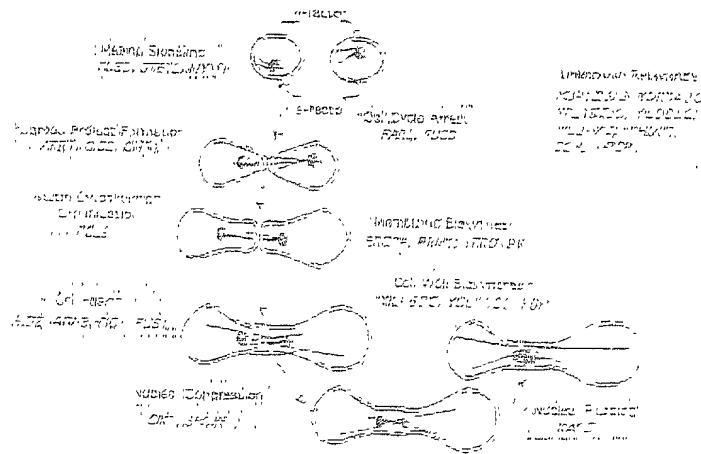


FIGURE 8

FIGURE 9A

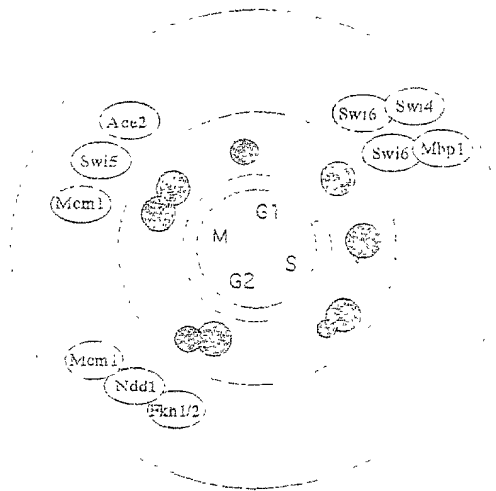


FIGURE 9B

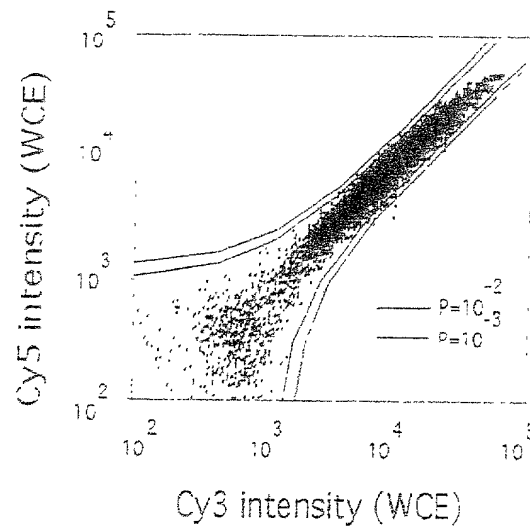
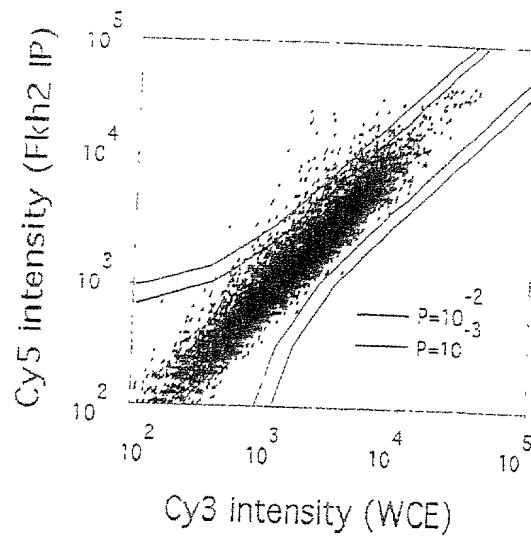


FIGURE 9C



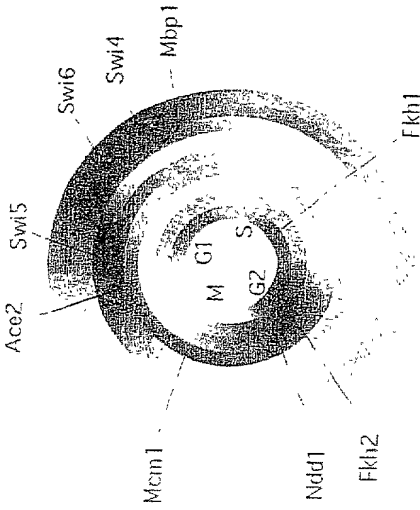


FIGURE 10B

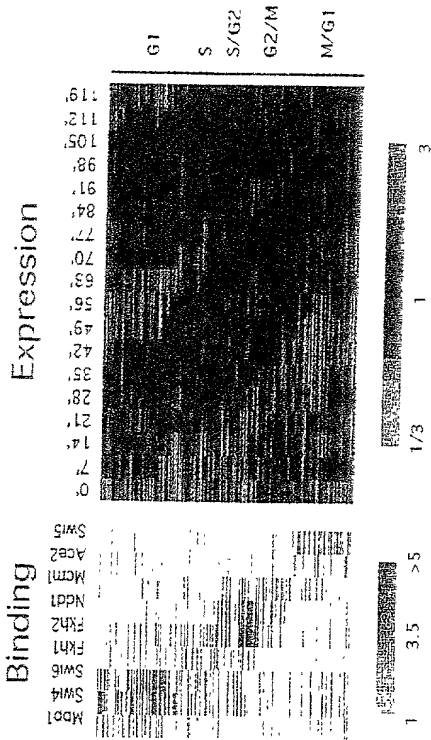


FIGURE 10A

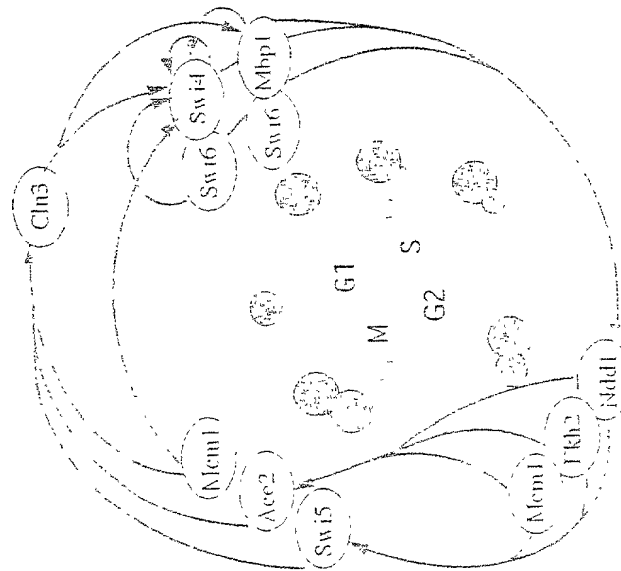


FIGURE 11B

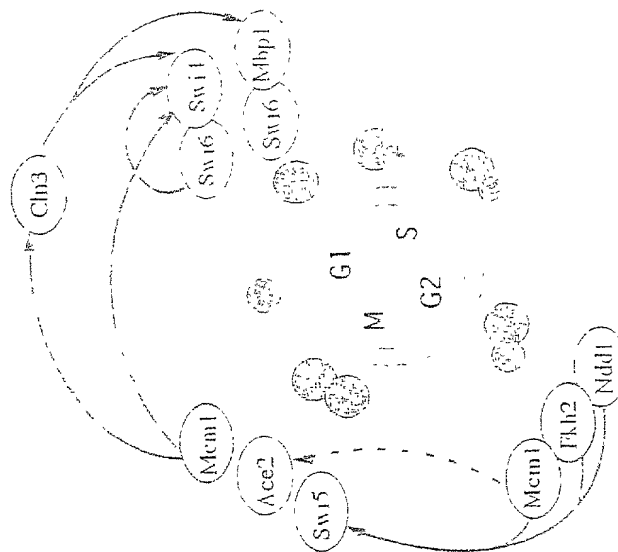
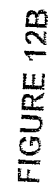
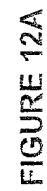


FIGURE 11A



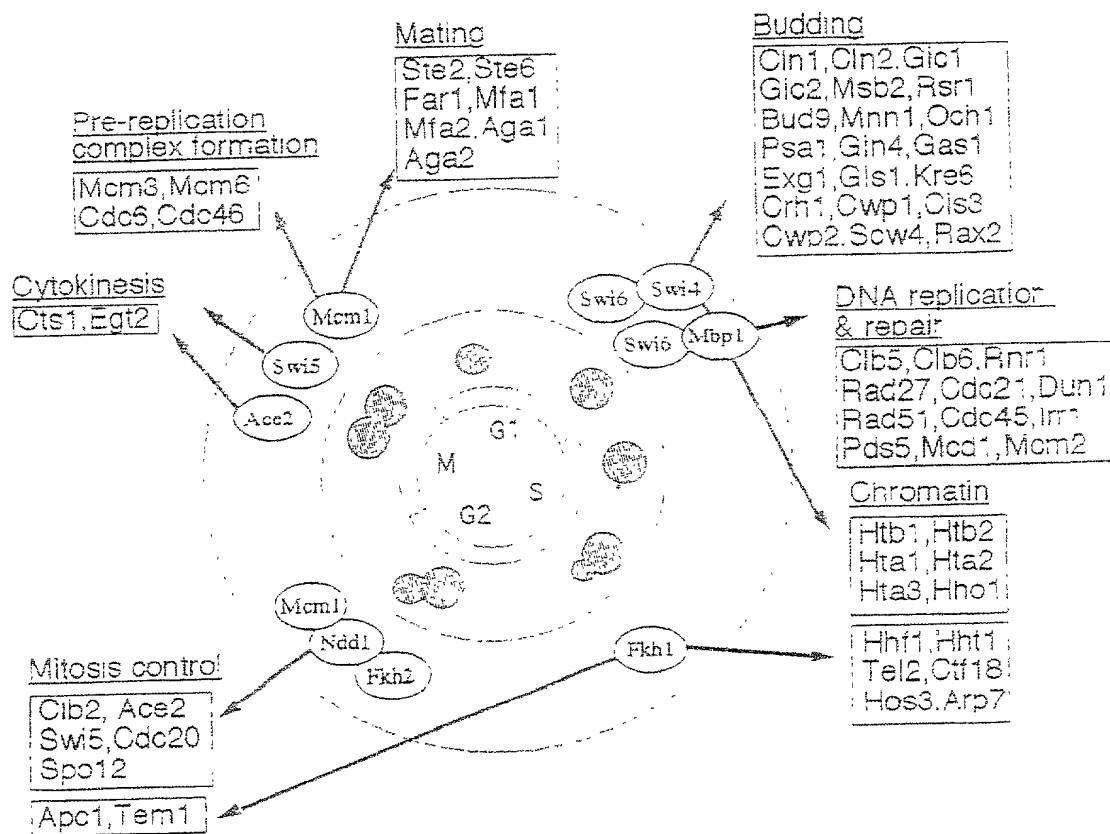


FIGURE 13

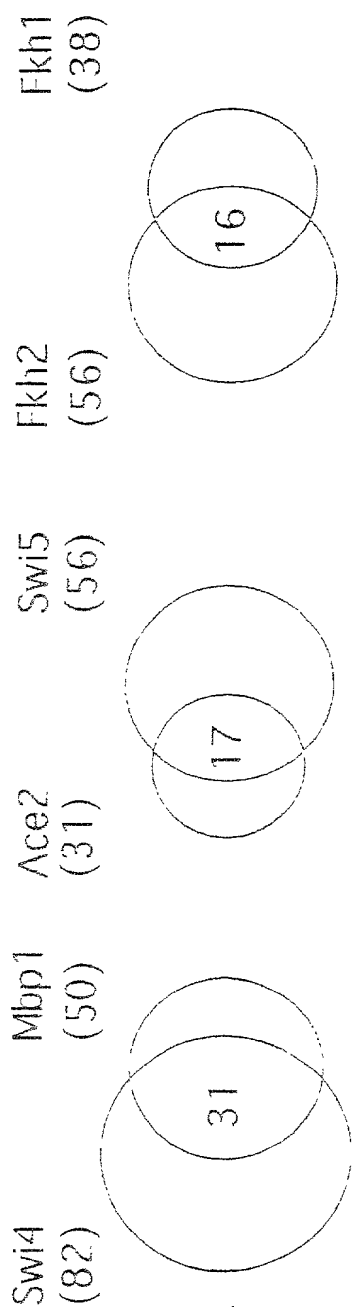


FIGURE 14A

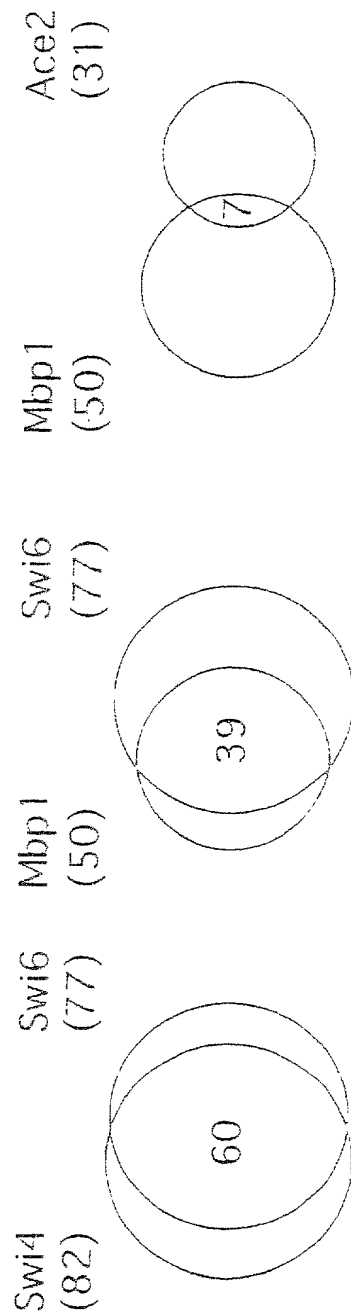


FIGURE 14B

FIGURE 14C